

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: September 4, 2002, 16:09:14 ; Search time 165.17 Seconds
(without alignments)
34.297 Million cell updates/sec

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Title: US-09-052-089A-5
Perfect score: 286
Sequence: 1 RALCTICSDPFHSDRYAAM.....IQSFETAPRTCPQCRIVG 51

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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

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Searched:      747574 seqs, 111073796 residues
Total number of hits satisfying chosen parameters:  747574
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Minimum DB seq length: 0
Maximum DB seq length: 20000000000
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Post-processing:  Minimum Match 0%
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                  Listing first 45 summaries
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	268	93.7	469	19	AAW37881	BRCA1 modulator protein
2	268	93.7	469	20	AAV30149	Amino acid sequence
3	114	39.9	225	22	AAE03224	Human gene 5 encodes
4	114	39.9	339	22	AAE03206	Human gene 5 encodes
5	114	39.9	455	22	ABE61289	Drosophila melanogaster
6	113	39.5	158	22	ABE60559	Drosophila melanogaster
7	103	36.0	309	21	AAE23048	Arabidopsis thaliana
8	103	36.0	309	21	AAE51101	Arabidopsis thaliana
9	103	36.0	328	21	AAE23047	Arabidopsis thaliana
10	103	36.0	328	21	AAE51100	Arabidopsis thaliana
11	103	36.0	344	21	AAE29289	Arabidopsis thaliana

12	103	36.0	348	21	AAG29288	Arabidopsis thaliana
13	103	36.0	356	21	AAG29287	Arabidopsis thaliana
14	103	36.0	358	21	AAG23046	Arabidopsis thaliana
15	103	36.0	358	21	AAG51099	Arabidopsis thaliana
16	98	34.3	99	21	AAG35608	Arabidopsis thaliana
17	98	34.3	125	21	AAG35607	Arabidopsis thaliana
18	98	34.3	121	21	AAG44448	Arabidopsis thaliana
19	98	34.3	296	21	AAG13718	Arabidopsis thaliana
20	98	34.3	296	21	AAG50322	Arabidopsis thaliana
21	98	34.3	325	21	AAG13717	Arabidopsis thaliana
22	98	34.3	325	21	AAG50321	Arabidopsis thaliana
23	98	34.3	362	21	AAG13716	Arabidopsis thaliana
24	98	34.3	362	21	AAG50320	Arabidopsis thaliana
25	98	34.3	368	21	AAG44447	Arabidopsis thaliana
26	98	34.3	410	21	AAG44446	Arabidopsis thaliana
27	98	34.3	621	22	ABBS8678	Drosophila melanogaster
28	97	33.9	274	21	AAG05518	Arabidopsis thaliana
29	97	33.9	274	21	AAG05125	Arabidopsis thaliana
30	97	33.9	289	21	AAG05517	Arabidopsis thaliana
31	97	33.9	289	21	AAG45124	Arabidopsis thaliana
32	97	33.9	291	21	AAG05516	Arabidopsis thaliana
33	97	33.9	291	21	AAG45123	Arabidopsis thaliana
34	96	33.6	405	22	AAB36644	Oryza sativa var. indica
35	95	33.4	493	22	AAB02617	Human haematopoietic cell line
36	95	33.4	504	22	AAB02617	Human haematopoietic cell line
37	95	33.2	330	21	AAG29181	Arabidopsis thaliana
38	95	33.2	339	21	AAG29180	Arabidopsis thaliana
39	95	33.2	351	21	AAG29179	Arabidopsis thaliana
40	94	33.9	51	22	AAT02003	Human secreted protein
41	94	33.9	350	22	ABBS0167	Human secreted protein
42	93	33.5	551	18	AAW27150	HMG-CoA reductase
43	92	32.2	83	21	AAG32709	Zea mays protein f
44	92	32.2	93	21	AAG32708	Zea mays protein f
45	92	32.2	154	21	AAG32707	Zea mays protein f

ALIGNMENTS

XX	RESULT	1
XX	AAW37881	
XX	ID	AAW37881 standard; Protein: 469 AA.
XX	AC	
XX	AAW37881;	
XX	DT	28-AUG-1998 (first entry)
XX	DE	BRCA1 modulator protein 091-21A31.
XX	RW	BRCA1 modulator protein; 091-21A31; breast cancer antigen 1.
XX	KW	tumour suppressor protein; diagnosis; therapy; human.
XX	OS	Homo sapiens.
XX	FT	Key
XX	FT	Location/Qualifiers
XX	FT	3..54
XX	FT	/note="zinc finger motif"
XX	FT	229..255
XX	FT	/note="leucine zipper motif"
XX	PN	W09810066-A1.
XX	PD	12-MAR-1998.
XX	PP	06-AUG-1997; 97WO-US13944.
XX	PR	04-SEP-1996; 96US-0025601.
XX	PA	(ONYX-) ONYX PHARM INC.
XX	EL	Lifenteliter C, Polakis P, Rubinfeld B, Vuong TT;
XX	DR	WPI; 1998-193616/17.

DR N-PSDB; AAV29062.
 XX Breast cancer antigen 1 modulator protein - useful for diagnosing
 PT diseases involving unwanted cell growth, e.g. breast cancer, and for
 PT producing therapeutics for treatment of such diseases
 XX
 XX Example 1; Fig 1; 73pp: English.
 CC This polypeptide comprises a 53 kDa BRCA1 modulator protein that
 CC binds to the tumour suppressor gene product BRCA1, and which is
 CC characterised by a zinc finger domain and a leucine zipper motif.
 CC Its amino acid sequence was deduced from the nucleotide sequence
 CC of a cDNA clone (see AAV29062), designated 091-21A31 (ATCC 98141),
 CC isolated from a HeLa cell cDNA library using a yeast two-hybrid
 CC assay. 3 cDNA clones (see also AAV29063-64) coding for BRCA1
 CC modulator proteins (see AAV37881-83) have been characterised. Vectors
 CC and host cells comprising the isolated nucleic acid sequences are
 CC claimed, as well as a process for producing BRCA1 modulator protein
 CC by culturing these host cells. BRCA1 modulator proteins and nucleic
 CC acids can be used to diagnose diseases involving unwanted cell
 CC growth, e.g. breast cancer, and to identify compounds that alter
 CC BRCA1 interaction with BRCA1 modulators for the treatment of such
 CC diseases.
 CC
 XX Sequence 469 AA;
 SQ

Query Match 93.7%; Score 268; DB 19; Length 469;
 Best Local Similarity 94.1%; Pred. No. 1.2e-25;
 Matches 48; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 RALCTICSDFFDHSRDVAMDCGHTFHLOCLIOSFETAPSRPCRCRIQVG 51
 Db 4 ralcticsdfdhdsrdvaahcghthfqlqclqwfetapscrcritygv 54

RESULT 2
 AAV30149
 ID AAV30149 standard; Protein: 469 AA.
 XX
 AC AAV30149;
 XX
 DT 27-OCT-1999 (first entry)
 XX
 DE Amino acid sequence of a BRCA1 modulator protein.
 XX
 KW Modulator protein; BRCA1; tumour suppressor protein; breast cancer;
 KW ovarian cancer; cell growth; cell proliferation.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Region 3..32
 FT /note= "zinc finger motif"
 FT Region 230..255
 FT /note= "leucine zipper motif"
 XX
 PN US5948643-A.
 XX
 PD 07-SEP-1999.
 XX
 PF 13-AUG-1997; 97US-0968751.
 XX
 PR 13-AUG-1997; 97US-0968751.
 XX
 PA (ONYX-) ONYX PHARM INC.
 XX
 PI Lingenfeiter C, Polakis PG, Rubinfeld B, Vuong TT;
 XX
 DR WPI: 1999-517952/43.
 DR N-PSDB; AAX86754.
 XX
 PT Modulator proteins that bind to and modulate the activity of the

PT BRCA1 tumour suppressor gene product, useful for the treatment of
 PT ovarian and breast cancer
 XX
 PS
 XX Example 1; Fig 1; 35pp: English.
 CC The present sequence represents a modulator protein, that binds to and
 CC modulate the activity of the BRCA1 gene product (BRCA1). The BRCA1
 CC protein has been characterized as a tumour suppressor protein.
 CC Alterations in the amino acid sequence of BRCA1 causes breast and ovarian
 CC cancers by removing the controls on cell growth and proliferation.
 CC Research has shown that different regions on the BRCA1 molecule have
 CC different effects on cell growth and tumour suppression (e.g. full length
 CC truncated BRCA1 has no effect on breast cancer cell growth but will
 CC inhibit ovarian cancer cell growth). It has been suggested that different
 CC host cell factors (e.g. proteins) interact with different regions of the
 CC BRCA1 to control its function. The identification of these proteins
 CC (e.g. BRCA1MP) will facilitate the development of novel diagnostic
 CC methods and new therapeutics for identifying and treating cancers caused
 CC by changes in the expression or activity of BRCA1.
 CC
 XX Sequence 469 AA;
 SQ

Query Match 93.7%; Score 268; DB 20; Length 469;
 Best Local Similarity 94.1%; Pred. No. 1.2e-25;
 Matches 48; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

QY 1 RALCTICSDFFDHSRDVAMDCGHTFHLOCLIOSFETAPSRPCRCRIQVG 51
 Db 4 ralcticsdfdhdsrdvaahcghthfqlqclqwfetapscrcritygv 54

RESULT 3
 AAE03224
 ID AAE03224 standard; Protein: 225 AA.
 XX
 AC AAE03224;
 XX
 DT 10-AUG-2001 (first entry)
 XX
 DE Human gene 5 encoded secreted protein HTLFI5, SEQ ID NO:74.
 XX
 KW Human; secreted protein; proliferative disorder; cancer; tumour; asthma;
 KW foetal abnormality; developmental abnormality; haematopoietic disorder;
 KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
 KW Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;
 KW psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;
 KW inflammation; neurological disorder; Alzheimer's disease; food additive;
 KW angiolemic disorder; kidney disorder; gastrointestinal disorder; allergy;
 KW pregnancy-related disorder; endocrine disorder; infection; wound healing;
 KW cell culture; chemotaxis; vulnerrary; binding partner identification;
 KW gene therapy.
 KW
 KM Homo sapiens.
 XX
 OS
 XX
 FH Key Location/Qualifiers
 FT Peptide 1
 FT /label= Signal_peptide
 FT Protein 2..225
 FT /label= Mature_human_secreted_protein
 FT Misc-difference 21
 FT /label= Unknown
 FT /note= "Encoded by GNC on the inverse complementary
 FT strand of the cDNA sequence (AAD07677)"
 FT Misc-difference 45
 FT /label= Unknown
 FT /note= "Encoded by TGM on the inverse complementary
 FT strand of the cDNA sequence (AAD07677)"
 XX
 PN WO200134644-A1.
 XX
 PD 17-MAY-2001.
 XX

PF 08-NOV-2000; 2000WO-US30679.
 XX 12-NOV-1999; 99US-0164834.
 PR 04-AUG-2000; 2000US-0224007.
 XX (HUMA-) HUMAN GENOME SCI INC.
 PA
 XX Ruben SM, Komatsoulis GA, Olsen HS, Duan RD, Ebner R;
 PI WPI: 2001-329070/34.
 DR N-PSDB: AAD076577.
 XX
 PT Isolated nucleic acid molecule encoding a human secreted protein is
 PT used in preventing, treating or ameliorating a medical condition -
 XX
 PS Claim 11; Page 450; 499pp; English.
 XX
 CC AAD07655-AAD07695 represent cDNAs corresponding to 15 human secreted
 CC protein genes, and AAE03202-AAE03242 represent the proteins they encode.
 CC AAE03243-AAE03280 represent human secreted protein fragments or variants.
 CC The secreted proteins and their genes are useful for preventing, treating
 CC or ameliorating medical conditions, e.g., by protein or gene therapy.
 CC Pathological conditions can be diagnosed by determining the amount of the
 CC new protein in a sample or by determining the presence of mutations in
 CC the new genes. Specific uses are described for each of the 15 genes,
 CC based on the tissues in which they are most highly expressed, and include
 CC developing products for the diagnosis or treatment of proliferative
 CC disorders, cancer, tumours, foetal and developmental abnormalities,
 CC hematopoietic disorders, diseases of the immune system, AIDS, autoimmune
 CC diseases (e.g., rheumatoid arthritis), inflammation, allergies,
 CC neurological disorders, schizophrenia, asthma, skin disorders (e.g.,
 CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
 CC angiotensin disorders, kidney disorders, gastrointestinal disorders,
 CC pregnancy-related disorders, endocrine disorders, and infections. The
 CC proteins can also be used to aid wound healing and epithelial cell
 CC proliferation, to prevent skin aging due to sunburn, to maintain organs
 CC before transplantation, for supporting cell culture of primary tissues,
 CC to regenerate tissues, to identify their cognate ligands or binding
 CC partners, and in chemotaxis, and can be used as a food additive or
 CC preservative to modify storage properties. Antibodies specific for a
 CC protein of the invention can be used in alleviating symptoms associated
 CC with the disorders mentioned above, and in diagnostic immunoassays e.g.,
 CC radioimmunoassay or enzyme linked immunosorbent assay (ELISA).
 CC The present sequence represents a human secreted protein of
 CC the invention.
 XX
 XX Sequence 225 AA;
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 Query Match 39.9%; Score 114; DB 22; Length 225;
 Best Local Similarity 37.5%; Pred. No. 1.4e-06;
 Matches 18; Conservative 9; Mismatches 21; Indels 0; Gaps 0;
 QY 3 LCTTCDFHDSRDVYAMDCGHTFHLQCLISFETAPSPRCRIQV 50
 Db 70 lcaicldyeegdqklkllpchshtyhcckldpwfsqaprrspcvokqsv 117
 ID AAE03206 standard; Protein; 359 AA.
 XX
 AC AAE03206;
 XX
 DT 10-AUG-2001 (first entry)
 XX
 DE Human gene 5 encoded secreted protein HTLJF15, SEQ ID NO:56.
 XX
 KW Human: secreted protein; proliferative disorder; cancer; tumour; asthma;
 KW foetal abnormality; developmental abnormality; haematopoietic disorder;
 KW immune system disorder; AIDS; autoimmune disease; rheumatoid arthritis;
 KW Parkinson's disease; cognitive disorder; schizophrenia; skin disorder;

KW psoriasis; sepsis; diabetes; atherosclerosis; cardiovascular disorder;
 KW inflammation; neurological disorder; Alzheimer's disease; food additive;
 KW angiotensin disorder; kidney disorder; gastrointestinal disorder; allergy;
 KW pregnancy-related disorder; endocrine disorder; infection; wound healing;
 KW cell culture; chemotaxis; vulnerrary; binding partner identification;
 KW gene therapy.
 XX
 OS Homo sapiens.
 XX
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..28
 FT /Label= signal_peptide
 FT Protein 29..359
 FT /Label= Mature_human_secreted_protein
 XX
 PN W0200134644-A1.
 XX
 PD 17-MAY-2001.
 XX
 XX 08-NOV-2000; 2000WO-US30679.
 PF
 XX 12-NOV-1999; 99US-0164834.
 PR 04-AUG-2000; 2000US-0224007.
 XX (HUMA-) HUMAN GENOME SCI INC.
 PA
 PI Ruben SM, Komatsoulis GA, Olsen HS, Duan RD, Ebner R;
 XX WPI: 2001-329070/34.
 DR N-PSDB: AAD07659.
 XX
 PT Isolated nucleic acid molecule encoding a human secreted protein is
 PT used in preventing, treating or ameliorating a medical condition -
 XX
 PS Claim 11; Page 431-432; 499pp; English.
 XX
 CC AAD07655-AAD07695 represent cDNAs corresponding to 15 human secreted
 CC protein genes, and AAE03202-AAE03242 represent the proteins they encode.
 CC AAE03243-AAE03280 represent human secreted protein fragments or variants.
 CC The secreted proteins and their genes are useful for preventing, treating
 CC or ameliorating medical conditions, e.g., by protein or gene therapy.
 CC Pathological conditions can be diagnosed by determining the amount of the
 CC new protein in a sample or by determining the presence of mutations in
 CC the new genes. Specific uses are described for each of the 15 genes,
 CC based on the tissues in which they are most highly expressed, and include
 CC developing products for the diagnosis or treatment of proliferative
 CC disorders, cancer, tumours, foetal and developmental abnormalities,
 CC hematopoietic disorders, diseases of the immune system, AIDS, autoimmune
 CC diseases (e.g., rheumatoid arthritis), inflammation, allergies,
 CC neurological disorders, schizophrenia, asthma, skin disorders (e.g.,
 CC psoriasis), sepsis, diabetes, atherosclerosis, cardiovascular disorders,
 CC angiotensin disorders, kidney disorders, gastrointestinal disorders,
 CC pregnancy-related disorders, endocrine disorders, and infections. The
 CC proteins can also be used to aid wound healing and epithelial cell
 CC proliferation, to prevent skin aging due to sunburn, to maintain organs
 CC before transplantation, for supporting cell culture of primary tissues,
 CC to regenerate tissues, to identify their cognate ligands or binding
 CC partners, and in chemotaxis, and can be used as a food additive or
 CC preservative to modify storage properties. Antibodies specific for a
 CC protein of the invention can be used in alleviating symptoms associated
 CC with the disorders mentioned above, and in diagnostic immunoassays e.g.,
 CC radioimmunoassay or enzyme linked immunosorbent assay (ELISA).
 CC The present sequence represents a human secreted protein of
 CC the invention.
 XX
 XX Sequence 359 AA;
 SQ
 Query Match 39.9%; Score 114; DB 22; Length 359;
 Best Local Similarity 37.5%; Pred. No. 2.3e-06;
 Matches 18; Conservative 9; Mismatches 21; Indels 0; Gaps 0;

XX 25-FEB-2000; 2000EP-0301439.
PF
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PR 25-FEB-1999; 99US-0121825.
PR 09-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123568.
PR 23-MAR-1999; 99US-0125788.
PR 23-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
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PR 02-JUL-1999; 99US-0142055.
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PR 23-SEP-1999; 99US-0155486.

PR	25-MAR-1999	9905-0126264
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KW Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KM termination sequence.
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OS Arabidopsis thaliana.
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KW Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
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PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
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PR 07-OCT-1999; 99US-0158029.
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PR 22-OCT-1999; 99US-0160980.
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PR 23-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 36.0%; Score 103; DB 21; Length 356;
Best Local Similarly 38.3%; Pred. No. 5; 5e-05;
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PR	18-AUG-1999;	9905-0149426.
PR	20-AUG-1999;	9905-0145722.
PR	20-AUG-1999;	9905-0145723.
PR	20-AUG-1999;	9905-0148929.
PR	23-AUG-1999;	9905-0149902.
PR	23-AUG-1999;	9905-0149930.
PR	25-AUG-1999;	9905-0150566.
PR	26-AUG-1999;	9905-0150884.
PR	27-AUG-1999;	9905-0151065.
PR	27-AUG-1999;	9905-0151066.
PR	27-AUG-1999;	9905-0151080.
PR	30-AUG-1999;	9905-0151303.
PR	31-AUG-1999;	9905-0151438.
PR	01-SEP-1999;	9905-0151930.
PR	07-SEP-1999;	9905-0152363.
PR	10-SEP-1999;	9905-0153070.
PR	13-SEP-1999;	9905-0153758.
PR	15-SEP-1999;	9905-0154018.
PR	16-SEP-1999;	9905-0154039.
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PR	22-OCT-1999;	9905-0160981.
PR	22-OCT-1999;	9905-0160989.
PR	25-OCT-1999;	9905-0161404.
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PR	25-OCT-1999;	9905-0161406.
PR	26-OCT-1999;	9905-0161359.
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PR	26-OCT-1999;	9905-0161361.
PR	28-OCT-1999;	9905-0161920.
PR	28-OCT-1999;	9905-0161992.
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PR	29-OCT-1999;	9905-0162142.

	Query Match	36.0%	Score 103;	DB 21:	Length 358;
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ID	AGS1099 standard; Protein; 358 AA.
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DT	18-OCT-2000 (first entry)
XX	
DE	Arabidopsis thaliana protein fragment SEQ ID NO: 64820.
XX	
XX	Protein identification: signal transduction pathway; metabolic pathway;
KW	hybridisation assay; genetic mapping; gene expression control; promoter;
KW	termination sequence.
XX	
OS	Arabidopsis thaliana.
XX	
PN	EP1033405-A2.
XX	
PD	06-SEP-2000.
XX	
PE	25-FEB-2000; 2000EP-0301439.
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PR	25-FEB-1999; 99US-0121825.
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PR	09-MAR-1999; 99US-0123548.
PR	23-MAR-1999; 99US-0125788.
PR	23-MAR-1999; 99US-0126264.
PR	29-MAR-1999; 99US-0126785.
PR	01-APR-1999; 99US-0127462.
PR	06-APR-1999; 99US-0128234.
PR	08-APR-1999; 99US-0128714.
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PR	19-APR-1999; 99US-0130077.
PR	21-APR-1999; 99US-0130449.
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PR	30-APR-1999; 99US-0132407.
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PR	06-MAY-1999; 99US-0132486.
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PR	11-MAY-1999; 99US-0134256.
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PR	27-MAY-1999; 99US-0136392.
PR	28-MAY-1999; 99US-0136782.
PR	01-JUN-1999; 99US-0137222.
PR	03-JUN-1999; 99US-0137528.
PR	04-JUN-1999; 99US-0137502.
PR	07-JUN-1999; 99US-0137724.
PR	08-JUN-1999; 99US-0138094.
PR	10-JUN-1999; 99US-0138540.
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XX Protein identification: signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EPI033405-A2.
XX
PD 06-SEP-2000.
XX
PE 25-FEB-2000; 2000EP-0301439.
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PR 25-FEB-1999; 99US-0121825.
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PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.

PR 31-AUG-1999; 99US-0151438.
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PR 10-SEP-1999; 99US-0153070.
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PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 34.3%; Score 98; DB 21; Length 99;
Best Local Similarity 40.9%; Pred. No. 6,1e-05;
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RESULT 17
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XX AAG35607;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 43523.
XX
KW Protein identification: signal transduction pathway; metabolic pathway;
KW hybridisation assay: genetic mapping; gene expression control; promoter;
KW termination sequence.
XX Arabidopsis thaliana.
XX

PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PE 25-FEB-2000; 2000EP-0301439.
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PR 05-MAR-1999; 99US-0123180.
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PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
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PR	02- <u>JUL</u> -1999;	9905-0142205;
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PR 23-SEP-1999; 99US-0155486.
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PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
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PR 14-OCT-1999; 99US-0159351.
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PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
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PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 34.3%; Score 98; DB 21; Length 362;
Best Local Similarity 38.3%; Pred. No. 0.00024;
Matches 18; Conservative 10; Mismatches 17; Indels 2; Caps 1;

OY 4 CTICSDFFDHSRDVAAMDGHTFHLOCLIOSEFETAPSTCQCKAIQV 50
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RESULT 25
AAG44447
ID AAG44447 standard; Protein; 368 AA.
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AC AAG44447;
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DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 55679.
XX
KW Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.
OS Arabidopsis thaliana.
XX
PN EPI03405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
XX 25-FEB-1999; 99US-0121825.
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PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
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PR 20-AUG-1999; 99US-0149722.
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PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
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PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
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Query Match 34.3%; Score 98; DB 21; Length 366;
Best Local Similarity 34.1%; Pred. No. 0.00024;
Matches 15; Conservative 11; Mismatches 16; Indels 2; Gaps 1;

OY 4 CTCSCDFDHSRDVAMDCGTFHLOCLIQSFETAPSRCPQCR 47
Db 320 csicqdeyeredevgeInchfhnvcxqwl--srknacpvck 361

RESULT 26
AAG44446
ID AAG44446 standard; Protein; 410 AA.
AC AAG44446;
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DT 18-OCT-2000 (first entry)
XX Arabidopsis thaliana protein fragment SEQ ID NO: 55678.
DE
XX Protein identification; signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
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PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
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PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
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PR 06-JUL-1999; 99US-0142390.
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PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
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PR 24-SEP-1999; 99US-0155659.
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PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
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PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
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PR 29-OCT-1999; 99US-0162142.

Query Match 34.3%; Score 98; DB 21; Length 410;
Best Local Similarity 34.1%; Pred. No. 0.00027;
Matches 15; Conservative 11; Mismatches 16; Indels 2; Gaps 1;

OY 4 CTRCSDFFDHSRDVAMDCGTFPHLQCLIOSFTAPSRICPOCR 47
Db 362 csicqdeyeredevgelncghsnhvcvqxw1--stknacpyck 403

RESULT 27

ABBS58678
ID ABBS58678 standard; Protein; 621 AA.

XX ABB58678;

XX 26-MAR-2002 (first entry)

DE Drosophila melanogaster polypeptide SRO ID NO 2826.

XX Drosophila; developmental biology; cell signalling; insecticide;
KW pharmaceutical.
XX

OS	Drosophila melanogaster.
XX	
PN	WO200171042-A2.
XX	
PD	27-SEP-2001.
XX	
PF	23-MAR-2001; 2001WO-US09231.
XX	
PR	23-MAR-2000; 2000US-191637P.
XX	
PA	11-JUL-2000; 2000US-0614150.
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PB	(PEKE) PE CORP NY.
PI	Venter JC, Adams M, Li PWD, Myers EW;
DR	WPI; 2001-656860/75.
N-PSDB; ABL02781.	
PT	New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signalling and cell-cell interactions -
PS	Disclosure; SEQ ID NO 2826; 21pp + Sequence Listing; English.
CC	The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (AB16176-AB13051), expressed DNA sequences (AB101840-AB16175) and the encoded proteins (ABB57737-ABB72072).
CC	The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
SQ	Sequence 621 AA;
Query Match	34.3%; Score 98; DB 22; Length 621; Best Local Similarity 38.8%; Pred. No. 0.00042;
Matches 19; Conservative 8; Mismatches 16; Indels 6; Gaps 3	
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AACG05518 standard; Protein; 274 AA.	
XX AC	AAG05518;
XX DT	17-OCT-2000 (first entry)
DE Arabidopsis thaliana protein fragment SEQ ID NO: 1953.	
XX KW	Protein identification; signal transduction pathway; metabolic pathway; hybridisation assay; genetic mapping; gene expression control; promoter; termination sequence.
XX OS	Arabidopsis thaliana.
PM EP1033405-A2.	
XX PD	06-SEP-2000.
XX PF	25-FEB-2000; 2000EP-0301439.
PR 25-FEB-1999; 99US-0121825.	
PR 05-MAR-1999; 99US-012180.	
PR 09-MAR-1999; 99US-0123548.	

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PR	25-MAR-1999;	9905-01252854
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KW protein identification; signal transduction pathway; metabolic pathway;
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KW termination sequence.

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PR 29-OCT-1999; 99US-0162142.

Query Match 33.9%; Score 97; DB 21; Length 291;
Best Local Similarity 38.6%; Pred. No. 0.00025;
Matches 17; Conservative 8; Mismatches 17; Indels 2; Gaps 2;

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Oy      4    CTICSDF-FDHSRDVAAADCGHFTFLCCLIOSFEFAPSRTCPQC 46
         | : | :: || :||| : |||| | : | : ||| |
Db      103 cpvcfeylfdstdrdlvtlrcgntcmleec-tkdmglmrytccpcv 205

RESULT  34
ID       AAB36644
        AAB36644 standard; Protein: 405 AA.
XX
AC       AAB36644;
XX
DT       14-MAR-2001 (first entry)
XX
DE       Oryza sativa var. nipponbare Tos17 protein sequence SEQ ID NO:2.
XX
KW       Rice; Tos17; ethylene synthesis; regulation; genetically modified plant;
RV       increased side-root elongation; crown-water resistance;
KW       improved fruit quality retention; improved flower quality retention.
XX
OS       Oryza sativa.
XX
PN       WO200071721-A1.
XX
PD       30-NOV-2000.
XX
PE       25-MAY-1999;   99WO-JP02732.
XX
PR       25-MAY-1999;   99WO-JP02732.
XX
PA       (NORO ) JAPAN MIN AGRIC FORESTRY & FISHERIES.
XX       (BIOO-) BIO-ORIENTED TECHNOLOGY RES ADVANCEMENT.
PI       Hirochika H, Abe K;
XX
DR       WPI; 2001-061354/07.
XX
DR       N-PSDB; AAC88125.
XX
PT       Rice-originated oligonucleotides encoding gene regulating ethylene
PR       synthesis in plant, for producing transformants and genetically
PT       modified plants with promoted side-root elongation and crown-water
PR       resistance -
XX
PS       Claim 1; Fig 1; 35pp; Japanese.
XX
CC       The present invention describes oligonucleotides encoding a gene
CC       producing a product capable of regulating ethylene synthesis. Also
CC       described are: (1) a vector containing the oligonucleotides which can
CC       be ligated to operate the control sequence; (2) a plant transformed
CC       with the vector; and (3) a method for regulating ethylene synthesis
CC       in a plant by introducing the oligonucleotides into it. The gene can
CC       be used in producing transformants and genetically modified plants.
CC       Plants produced by the method have increased side-root elongation,
CC       crown-water resistance and improved fruit and flower quality retention.
CC       The present sequence represents the specifically claimed Tos17 isolated
CC       from Oryza sativa var. nipponbare, which has ethylene synthesis
CC       regulating activity.
SQ       Sequence     405 AA;

Query Match          33.6%; Score 96; DB 22; Length 405;
Best Local Similarity 32.0%; Pred. No. 0.00048;
Matches 16; Conservative 12; Mismatches 20; Indels 2; Gaps 1;

Oy      2    ALCTTCSDFFDHRSRVAAADCGHFTFLCCLIOSFEFAPSRTPCQRIQYG 51
         | : | || | : | : | : | ||||| : | : | : | : | : |
Db      329 avcciclciskfsmcdlreipcnhvfhlecvdkwtkl--nalcplokadlg 376

RESULT  35
ID       AAE02618
        AAE02618 standard; Protein: 493 AA

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XX	AAE02618;
AC	
XX	06-AUG-2001 (first entry)
DT	
XX	
DE	Human haematopoietic lineage switch (HLS)-5 #2.
XX	
KM	Human; haematopoietic lineage switch; HLS-5; tumour suppressor; cancer;
KW	ring finger B-box coiled-coil; RBCC; transcriptional regulator; tumour;
KM	acute myeloid leukaemia; drug screening; gene therapy; cytostatic.
OS	Homo sapiens.
XX	
PN	WO200138374-A1.
PD	
XX	31-MAY-2001.
XX	
PE	24-NOV-2000; 2000WO-AU01439.
XX	
PR	24-NOV-1999; 99AU-0004216.
XX	
PA	(UYWA-) UNIV WESTERN AUSTRALIA.
XX	
PI	Klinken SP, Lalonde J, Williams JH;
DR	WPI: 2001-367663/38.
N-PSDB:	AAD06781.
PT	Novel tumor suppressor gene, HLS-5, useful for regulating cell growth
and treating a condition characterized by aberrant cell growth -	
Example; Page 108-109; 111pp; English.	
PS	
XX	
CC	The present invention relates to a tumour suppressor gene, termed
haematopoietic lineage switch (HLS)-5 and the protein it encodes.	
HLS-5 is a member of ring finger B-box coiled coil (RBCC) family of	
transcriptional regulators. HLS-5 exhibits tumour suppressor activities	
in acute myeloid leukaemia and breast cancer cells. HLS-5 DNA, protein	
and its Ab are useful for treating a condition characterised by aberrant	
cell growth. HLS-5 DNA and protein are useful to identify a substance	
capable of affecting HLS-5 function, or capable of modulating cell	
growth. HLS-5 DNA and protein sequences are useful for diagnosing and	
treating tumours and cancers. HLS-5 polypeptides are also useful for	
screening drugs for treating diseases. HLS-5 DNA is used in gene	
therapy. The present amino acid sequence is human HLS-5.	
CC	
CC	
XX	
SQ	Sequence 493 AA;
Query Match	33.4%; Score 95.5; DB 22; Length 493;
Best Local Similarity	40.0%; Pred. NO. 0.00068;
Matches 18; Conservative	6; Mismatches 18; Indels 3; Gaps 1;
OY	3 LCTTCSDFDHSRDVAAMDCHTHLQCLIQSFETAPSKTCQCR 47
	: : : : :
Db	20 leaveydpf---rdavtlrcghnfcrgcvsrcewgvspctcyvk 61
RESULT 36	
AAE02617	
ID	AAE02617 standard; Protein; 504 AA.
XX	
AC	AAE02617;
XX	
DT	06-AUG-2001 (first entry)
XX	
DE	Human haematopoietic lineage switch (HLS)-5 #1.
XX	
KM	Human; haematopoietic lineage switch; HLS-5; tumour suppressor; cancer;
KW	ring finger B-box coiled-coil; RBCC; transcriptional regulator; tumour;
KM	acute myeloid leukaemia; drug screening; gene therapy; cytostatic.
OS	Homo sapiens.

PR 19-JUL-1999; 99US-0144325.
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Query Match 33.2%; Score 95; DB 21; Length 330;
Best Local Similarity 38.3%; Pred. No. 0.00052;

Matches 18; Conservative 6; Mismatches 21; Indels 2; Gaps 1;

QY 4 CTTCSDFFDHSRDVAMDCGTFHLCLOSFETAPRTCPQCRIOV 50
Db 202 cswclddfeigteaklmpctkhfnsdclplwlehs--cpvcryql 246

RESULT 38
AAG29180
ID AAG29180 standard; Protein; 339 AA.

XX
AC AAG29180;

XX
DT 17-OCT-2000 (first entry)

XX
DE Arabidopsis thaliana protein fragment SEQ ID NO: 34674.

KW Protein identification: signal transduction pathway; metabolic pathway;
KW hybridisation assay; genetic mapping; gene expression control; promoter;

KW termination sequence.

XX
OS Arabidopsis thaliana.

XX
PN EP1033405-A2.

XX
PD 06-SEP-2000.

XX
PF 25-FEB-2000; 2000EP-0301439.

XX
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PR 05-MAR-1999; 99US-0123180.

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PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
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PR 29-SEP-1999; 99US-0156556.
PR 04-OCT-1999; 99US-0157117.
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PR 06-OCT-1999; 99US-0157865.
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PR 08-OCT-1999; 99US-0158232.
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RESULT 39

AAG29179
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XX AAG29179;

DT 17-OCT-2000 (first entry)

XX Arabidopsis thaliana protein fragment SEQ ID NO: 34673.

KW Protein identification; signal transduction pathway; metabolic pathway;
KM hybridisation assay; genetic mapping; gene expression control; promoter;
XX termination sequence.

OS Arabidopsis thaliana.

XX EPI033405-A2.

XX 06-SEP-2000.

PF 25-FEB-2000; 2000EP-0301439.

XX 25-FEB-1999; 9905-0121825.

PR 05-MAR-1999; 9905-0123180.

PR 09-MAR-1999; 9905-0123548.

PR 23-MAR-1999; 9905-0125788.

PR 25-MAR-1999; 9905-0126264.

PR 29-MAR-1999; 9905-0126785.

PR 01-APR-1999; 9905-0127462.

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PR 23-APR-1999; 9905-0130449.

PR 28-APR-1999; 9905-0130891.

PR 30-APR-1999; 9905-0131449.

PR 04-MAY-1999; 9905-0132407.

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PR 22-JUL-1999; 9905-0145085.
PR 22-JUL-1999; 9905-0145087.

[illegible]

CC immunoassays e.g. radioimmunoassays or enzyme linked immunosorbent
CC assays (ELISA). The disorders include autoimmune diseases e.g. rheumatoid
CC arthritis, hyperproliferative disorders e.g. neoplasms of the breast or
CC liver, cardiovascular disorders e.g. cardiac arrest, cerebrovascular
CC disorders e.g. cerebral ischemia, angiogenesis, nervous system disorders
CC e.g. Alzheimer's disease, infections caused by bacteria, viruses and
CC fungi and ocular disorders e.g. corneal infection. The peptides can also
CC be used to aid wound healing and epithelial cell proliferation, to help
CC prevent skin ageing due to sunburn, to maintain organs before
CC transplantation, to regenerate tissues, in chemotaxis and as a food
CC additive or preservative to alter storage capabilities.
XX
SQ Sequence 51 AA;

Query Match 32.9%; Score 94; DB 22; Length 51;
Best Local Similarity 36.2%; Pred. NO. 9.7e-05;
Matches 17; Conservative 7; Mismatches 21; Indels 2; Gaps 1;

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| | | | : | | : | | | | : | : | | | :
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Search completed: September 4, 2002, 16:09:16
Job time: 8140 sec

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